Docket No.:

29926/38004

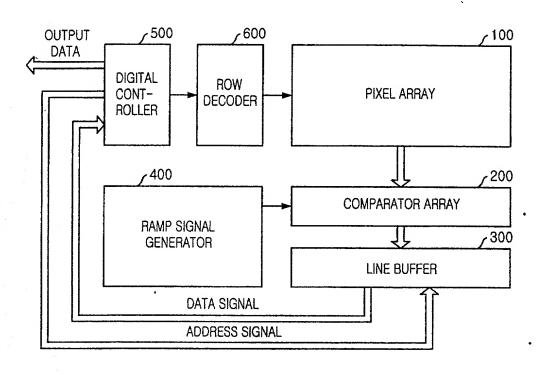
Title:

CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 1)

Inventor:

Sheet 1 of 9

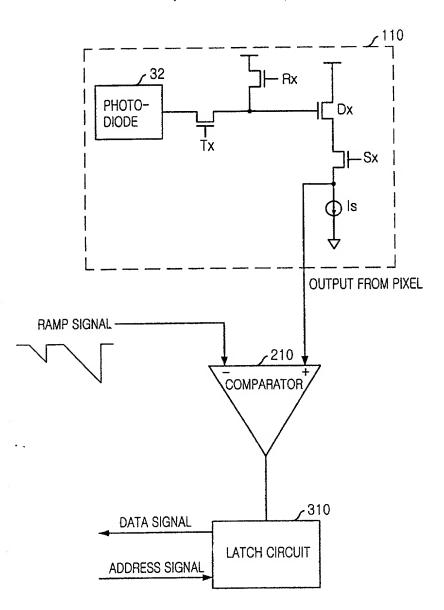
FIG. 1 (PRIOR ART)



29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 2)

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FIG. 2 (PRIOR ART)



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CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 3)

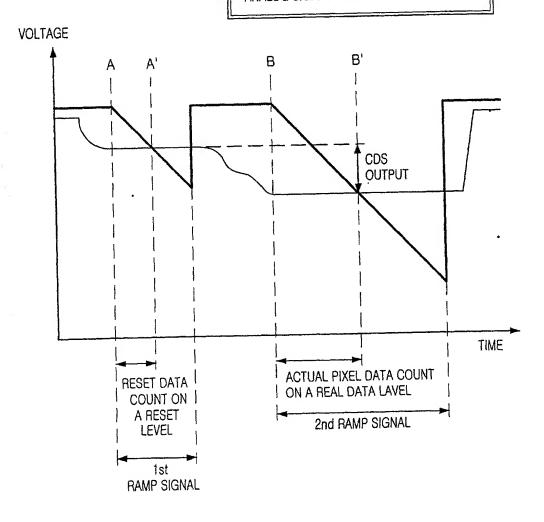
Inventor:

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FIG. 3 (PRIOR ART)

REFERENCE VOLTAGE SIGNAL FROM AN INTEGRATY CIRCUIT : (RAMP SIGNAL)

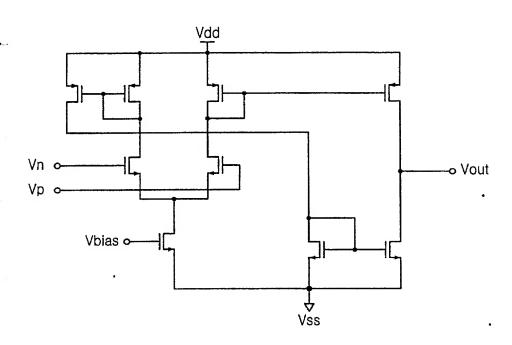
ANALOG SIGNAL FROM PIXEL :



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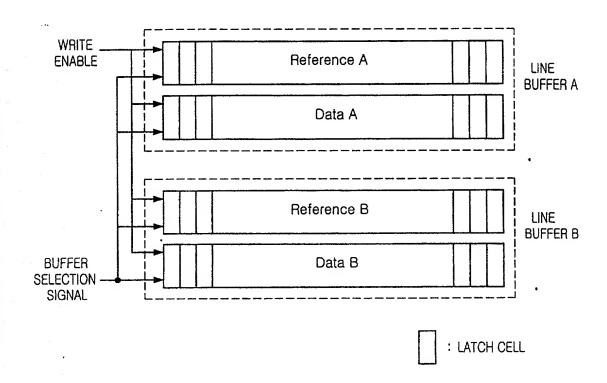
FIG. 4 (PRIOR ART)



29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 5)

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FIG. 5 (PRIOR ART)

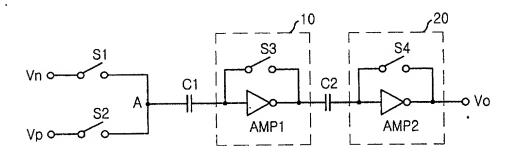


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29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 6)

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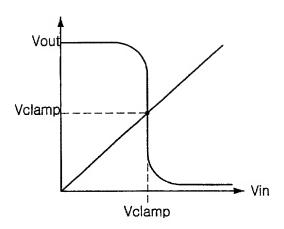
FIG. 6



29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 7)

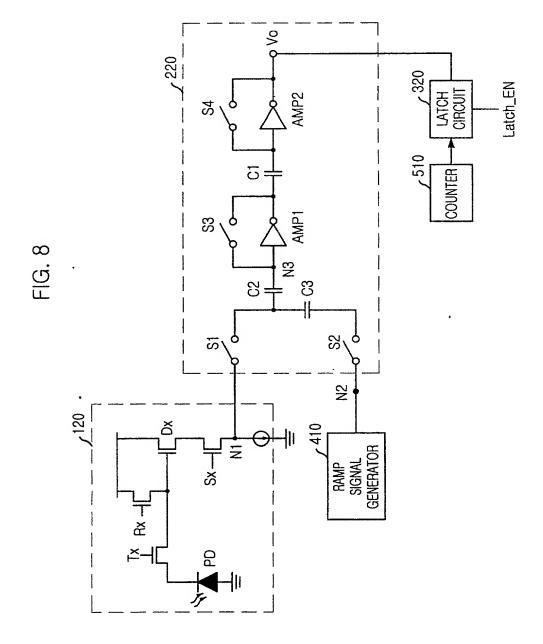
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FIG. 7



29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 8)

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29926/38004 CMOS Image Sensor Having a Chopper-type Comparator to Perform Analog Correlated Double Sampling Choi, Soo-Chang (fig. 9)

Inventor: Sheet 9 of 9

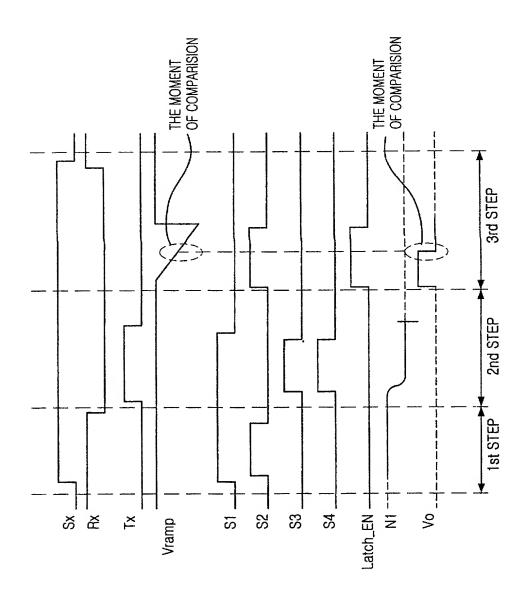


FIG. 9